

(FED 20385)

The Effect of Viscosity and Heat Conduction on the
Flow of Gas Behind a Strongly Curved Shock Wave,
by L. I. Sedov, M. P. Mikhaylova, G. G. Chernyy,
11 pp.

Full translation.

RUSSIAN, no per, Vest Moskov U, Seriya Fiziko-Matemat
i Yestest' Nauk, No 2, Moscow, 8 Mar 1953, pp 95-100.

CIA/FDD/0-5944

XXXXXXXXXXXX

RT-1368

REC 1974
15,454

USSR:

Sci - Physics, gas dynamics

V
All-University Scientific Conference "Lomonosov
Lectures," 36 pp.

RUSSIAN, no per, Vest Mosk U Ser Fiz-Matemat. i
Yestest Nauk. No 8, Moscow, Aug 1953, pp 171-183.

CIA/FMD/U-7895

USSR

Sci - Mathematics, Physics, Geophysics, Chemistry,
Geographic

32, 346

Feb 1956 CTS

(REF 26870)

Typical High Vacuum Combined Apparatus for the New
Building of Moscow University, by P. K. Oshechepkov,
K. M. Reykhrudel', T. N. Stasyuk, 22 pp.

RUSSIAN, 8-times-yr per, Vest Mosk U. Ser Fiz-Matemat.
i Tekhn Nauk, Vol VI, No 9, Moscow, 1953, pp 65-77.

CIA/FDD U-2675

USSR

Sci. - Engineering

Aug 56 CTS/DEX

34,873

61-10145

Philippov, L. P.
 PROBLEMS CONCERNING THE MEASUREMENT OF
 HEAT CONDUCTIVITIES OF LIQUIDS AND GASES.
 DEVELOPMENT OF A COMPARATIVE METHOD
 USING A FLAT LAYER (PARALLEL PLATE). [1960]
 [?]p. 7 refs.
 Order from LC or SLA ml\$1.80, ph\$1.80 61-10145

Trans. of Moscow U. Vestnik Serbiya Fiziko-
 mat[ematichesk]i i Yestestven[nykh] Nauk (USSR)
 1953, v. 5, no. 9, p. 109-114.

1. Liquids--Heat transfer
2. Gases--Heat transfer
3. Heat transfer--
 Measurement
1. Philippov, L. P.
17. Title: Heat transfer

143,217

Office of Technical Sources

(Physics--Thermodynamics, TT, v. 5, no. 4)

(FED 26371)

Meeting of the Scientific Council Dedicated to Radio
Day, by V. Dotsenko, 5 pp.

RUSSIAN, 0-times-yr per, Vest Nook U. Ser Fiz Matemat
i Yestest Nauk, Vol VI, No 9, Moscow, 1953, pp 161, 162.

CIA/FDD U-8676

USSR

Sci - Electronics

Aug 56 CFB/DEX

58, 863

(FID 26372)

50 Years of Scientific and Pedagogical Activity of
Professor A. B. Mlodzyevskiy, by V. Dotsenko,
6 pp.

RUSSIAN, 8-times-yr per, Vest Mosk U; Ser Fiz-
Matemat i Testest Nauk, Vol VI, No 9, Moscow, 1953,
pp 162-164.

(CIA/FID U-8677

38,831

USCR

Biographic

Aug 56 CTS/DEK

(FMD 26073).

At the Geographic Faculty Discussion of the
Scientific Problems of the Office for Division Into
Economic Districts, by, M. O. Kibal'chik, M. Stepanov,
1.6 pp.

RUSSIAN, 8 times-yr per, Vestnik Moskoy U. Ser. Fiz.-
Matemat. i Yestest. Nauk, Vol. VI, No 9, Moscow, 1953,
pp 164-169.

CIA/FMD U-5678

38,835

Aug 56 CRS/DEK

USBR
Geographic
Docu

(FDD 26874)

Defense of Dissertations, by O. Kibal'chik, 4 pp.

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Fiz-Matemat i Yestest Nauk, Vol. VI, No 9, Moscow,
1953, pp 169-171.

CIA/FDD U-8679

38,946

USSR

Sci - Physics

Aug 56 GTS/DEX

(FDD 26875)

Award of the M. V. Lomonosov Prize for 1953, by S. Daronyan, L. Krupchanov, 3 pp.

RUSSIAN, 8-times-yr per, Vest Moskov U: Ser Fiz Matemat i Yestest. Nauk, Vol VI, No 9, Moscow, 1953, p 171.

CIA/FDD U-8680

USSR

Sci - Miscellaneous, scientific prizes.

Aug 56 CFS/DEX

38,958

(FDD 25158)

Chemical Faculty in Lenin's Hills (Section of Moscow
by A. V. Novoselova, 9 pp.

RUSSIAN, no per, Vest Mosk U Ser Fiz-Matemat i Yeste
Nauk, No 10, Moscow, Oct 1955, pp 13-18.

31

CIA/FDD/U-7805

USSR

Sci - Chemistry, general
Biographic

31,563

Jan 56 CTS

(FID 25159)

Combine Academic and Scientific Work Skillfully, by
G. P. Gorshkov, 9 pp.

RUSSIAN, no per, Vest.Moskov,U.Ser.Fiz.Mat. i Yestest
Nauch, No 12, Moscow, Dec 1953, pp 3-8.

CIA/FID/U-7441

USUR

Sci - Geophysics, general

29,047

(FDD 25160)

Prepare Highly Qualified Cadres of Physicists,
by A. A. Sokolov, 13 pp.

RUSSIAN, no per, Vest Moskov U Ser Fiz Matemat i
Yeastest Nauk, No 12, Moscow, Dec 1953, pp 9-15.

CIA/FDD/U-7442

USSR
Sci - Physics, general
CTB 73 Oct 55

29,068

(FID 25161)

Some Results of the Work of the Zarayskiy Rayon Complex Expedition, by Yu. Tsessel'chuk, 10 pp.

RUSSIAN, no per, Vest.Moskov.U.Ser.Fiz.Mat.1 Yeatest
Bank, No 12, Moscow, Dec 1953, pp 134-137.

CIA/FID/U-7443

USSR

Sci - Geophysics

29,046

(FID 25162)

The Hydrogeological Expedition, by A. Yakusheva, 6 pp.

RUSSIAN, no per, Vestnik Moskov. U. Ser. Fiz.Mat.i.
Vestest Nauk, No 12, Moscow, Dec 1953, pp 137-139.

CIA/FDD/U-7444

USBR

Sci - Geophysics, geology

29,045

(FDD 25163)

The Stalingrad Complex Expedition, by
A. Vadyunina, 5 pp.

RUSSIAN, no per, Vest Moskov U. Ser Fiz
Matemat i T Yestest Nauk, No 12, Moscow,
Dec 1953, pp 141, 142.

CIA/FDD/U-7445

USSR
Sci - Biology
CTS 73 Oct 55

29154

(FIM 22789)

Oktaviy Konstantinovich Lange (on His ^e 70th
Birthday), by D. Gordayev, 4 pp.

RUSSIAN, no per, Vest Moskowskogo Universiteta Ser
Fiziko-matemati Yestestvennykh Nauk, Vol III, No 12,
Moscow, Dec 1952, pp 143-144.

Effect on the Heat Transfer Process of Radiation
and Absorption by the Medium, by L. D. Filippov,
9 pp.

RUSSIAN, no per, Vest Moskov Univ., Ser Fiziko-matemat
i Yestest Nauk, No 2, 1954, p 51-57

Morris D. Friedman
\$5.00

F-107

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Scientific - Physics

CTB 65/Feb 55

21, 278

Lapitskii, A. V. and Simanov, Yu. P.
LITHIUM SALTS OF ORTHONIOBIC AND ORTHO-
TANTALIC ACIDS. [1962] 6p. 6 refs.
Order from OTS or SLA \$1.10 62-18540

Trans. of Moscow U. [Vestnik] [Seriya Fiziko-Mate-
maticheskiy i Estestvennykh Nauk (USSR) 1954 [v. 9]
no. 2 [p. 69-72].

DESCRIPTORS: *Lithium compounds, Salts, *Niobates,
*Tantalum compounds, Oxides, Acids, Synthesis,
Lattices, Density, X-ray diffraction analysis.

Lithium orthoniobate and orthotantalate were synthesized
by two methods (giving identical results): (1) by the
interaction of lithium carbonate and niobium (tantalum)
pentoxide and (2) by the fusion of niobium (tantalum)
pentoxide with lithium hydroxide. The lattice constants
of both salts were determined. The pycnometric den-
sities of the lithium orthosalts of niobic and tantalic
acids were found to be in agreement with their calculated
x-ray densities. (Author)

62-18540

I. Lapitskii, A. V.
II. Simanov, Yu. P.

(Chemistry--Inorganic, TT,
v. 10, no. 1)
Office of Technical Services

(FDD 22996)

Moscow University Dissertation "Disposition of
US Industry" (1954), by O. Kibal'chik, 2 pp.

RUSSIAN, no per, Vest Moskov Univ, Ser Fiziko-
matemat i Yestest Nauk, Vol IX, No 2, Moscow,
Mar 1954, p 164.

CIA/FDD/U-6730

USSR

Scientific - Geophysics, geography

Geo

Econ

OTS 62/Nov 54

(WAK)

20,708

Theory of Solutions, by M. I. Shakhparonov.

RUSSIAN, per, Vestnik Moskov Univ, Vol IX, No 5,
Ser Fiz-Mat 1. Estestven Nauk, No 3, 1954, pp 55-59.

ATB BJ-1145

Sci - Phys

Apr 60

114,510

Moving Layers in Stationary Glow Discharge, by
A. A. Zaitsev, L. Podarek, 5 pp.

RUSSIAN, per, Vestnik Moskov Univ Ser Fiz Mat i
Estestven Nauk. No 3, 1954, pp 69-72.

AEC tr 2586

Sci - Physics
Nov 56 CTS

40,454

The Investigation of Vibrational Processes in
Glow Discharge for Transient Conditions, by L.
Pekarek, 5 pp.

KUSHKIAN, per, Vestnik Moskov Univ Ser Fiz Mat i
Estestven Nauk, No 3, 1976, pp 73-76.

ABU tr 2587

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Sci - Physics
Nov 76 GDS

40,455

Several Characteristics of Gaseous-Discharge
Ion Sources, by E. M. Reikhrudel, A. V. Chernetskii,
7 pp.

RUSSIAN, per, Vsesoyuz. Nauch. Ser. Fiz. Mat. i
Estestven. Nauk, No 5, 1954, pp 47-53.

AEC Tr 2588

Sci - Physics
Nov 56 GTS

40,456

Miroslavlev, E. N.
NONLINEAR SYSTEMS WITH CORRECTING
STABILITIES. [1962] 10p. 7 refs. [Trans.] 6897.
Order from OTS or SLA \$1.10 62-24771

Trans. of Moscow U. Vestnik. Seriya Fiziko-
Matematicheskikh i Estestvennykh Nauk (USSR) 1954,
v. 9, no. 6, p. 33-40.

DESCRIPTORS: Automatic, *Control systems, *Non-
linear systems, *Corrections, Circuits, Stabilization,
Servomotors, Feedback, Equations of motion
functions.

(Engineering--Electronic, TT, v. 10, no. 3)

62-24771

I. Miroslavlev, E. N.
II. Trans-6897

CIA/FDD/4-6897

CTS 45/FM 55

Office of Technical Services

Concerning the Composition of Longitudinal Plasma
Oscillations, by A. A. Iushina, G. Ia. Myakishov,
(Myakishov),

RUSSIAN, per, Vestnik Moskov Univ Ser Fiz Mat i
Estestven Nauk, No 12, 1984, pp 57-61.

AEC Tr 2589

Sci - Physics
Nov 56 CTS

40, 457

Reflection of Shock Waves From Corners of Rigid Walls, by A. Ya. Sagomonyan, 10 pp.

HEBBIAN, per, Vestnik Akad. Nauk SSSR Ser. Fiz. Mat. i Tekhn. Nauk, NO 2, 1977, P. 33-40.

AKS Tr 1990

Sol. - Physics
Nov 56 CDS

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Filippov, L. P.
THERMAL CONDUCTIVITY OF SOLUTIONS OF
ASSOCIATED LIQUIDS. [1960] (zh. 2 refs.
Order from LC or SLA m\$1.80, jh\$1.50 61-10144

Trans. of Moscow U. Vestnik. Ser[iya] Fiziko-
matematicheskikh [i.e. Physical and Mathematical Sciences]
1965, v. 10, no. 8, p. 67-69.

For 9 systems (methyl formate-methyl alcohol;
benzene-acetone; isobutylalcohol-acetone; acetone-
methyl formate; benzene-methylalcohol; isobutylalcohol-
methyl formate; carbon tetrachloride-acetone; chloro-
benzene-methylalcohol; and carbon tetrachloride-methyl-
alcohol) the concentration relation had exactly the same
character as that for solutions of normal organic sub-
stances and satisfied

$$\lambda = \lambda_1 + 2\lambda_2 - \lambda_1\lambda_2$$

where λ_1 and λ_2 represent the weight percentages of
the components ($\lambda_2 = 1 - \lambda_1$).

(Chemistry--Physical, TF, v. 5, no. 3)

61-10144

1. Polymer solutions. Thermal
properties
1. Filippov, L. P.

142,901

Office of Technical Services

Influence of Minor Nitrogen and Oxygen Impurities
on the Secondary Discharge Current and Determination
of the Nitrogen Content of Argon, by M. Ya.
Vasil'yeva, I. I. Taygankova, 10/90

RUSSIAN, per, Vest Moskov Univ, Ser Fiziko-Matemat
i Estestvennykh Nauk, No 8, 1955, pp 81-86.

DSIR LLU RTS 1632

OTS 61-15402 (4.10)

Sci - Chem

Oct 60

130,716

Concerning the Chemical Status of Atoms Resulting
From Nuclear Transformations, by A. N. Nesmeyanov,
Ye. G. Ippolitov.

RUSSIAN, per, Vest Mosk ^{mat}Ucheny, ser Fiz-Mat i
yest Nauk, No 10, 1955, pp 97-90.

~~Summary Presentation~~

*Will appear in
Scientific Information Reports*

Reaction of Hydrazine Derivative IV. New Synthesis of
Benzylhydrazine, by I. I. Grandberg, A. N. Kost, 3 pp

RUSSIAN, per, Moscow U Vestnik. Ser Fiz-Mat i Yestest-
vennykh Nauk, Vol X, No 12, 1955, pp 119, 120.

SLA 59-15900

Sci
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Vol 2, No 5

103 601

Quantitative Separation of Beryllium from Various
Elements by the Method of Ion-Exchange Chromato-
graphy, by T. A. Belyavskaya, V. I. Fadeyevn.

RUSSIAN, per, Vestnik Mosk Univ, Ser Fiz Mat
Estestv Nauk, Vol XI, No 6, 1956, pp 73-79.

AWRE-Tr-33

Sci - Phys

Jun 63

231,855

The Place of Geomorphology in the System of Natural
Sciences and Its Relationships With Integrated
Physical Geography, by I. S. Shchukin, 9 pp.

RUSSIAN, per, Vest Moskov U, Ser Geografiya,
No 1, 1960, pp 15-22.

Amer Geograph Soc

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Geographic
Nov 60

133,016

Participation of Moscow University Geographers in
Practical Work of Regional Economic Councils, by
A. S. Shaposhnikov, 5 pp.

RUSSIAN, per, Vest Moskov U, Ser. Geograf,
No 1, 1960, pp 32-42.

Amer Geograf Soc

USSR
Geographic
Nov 60

133,017

Agricultural Maps in National Atlases, by
N. S. Vinogradova, 6 pp.

RUSSIAN, per, Vest Moskov U. Ser Geograf.
No 1, 1960, pp 43-48.

Amer Geograf Soc

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Geographic
Nov 60

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Geomorphic Mapping Abroad, by SA. I. Spiridonov,
6 pp.

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No 1, 1960, pp 50-52.

Amer Geograf Soc

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Geographic
Rev 60

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Basic Shifts in the Structure and Distribution of
China's Industry, by I. Kh. Ovtiyenko, 7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 2, 1960, pp 28-32.

Soviet Geography
Amer Geograph Soc
Vol II, No 1

FE-China

150,133

Econ

May 61

(SF-1878)

Nikolay Nikolayevich Zubov, by A. D. Dobrovol'skiy,
8 pp.

RUSSIAN, per, Vest Mosk Univ; Geograf Seriya, No 2,
1960, pp 60-65.

JPRS 10333

USSR

172,846

Mag

Sci - Misc. 00261

Geological Maps in National Atlases, by N. V.
Krasil'nikova, 8 pp.

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Soviet Geography
Vol II, No 5
Amer Geographical Soc

USSR

150,531

Geog

May 61

On "Environmentalism" and "Possibilism", by Yu. G.
Sanskhin, 3 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 3, 1960, pp 67-69.

Soviet Geography
Amer Geograph Soc
Vol II, No 2

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May 61

150,256

Geochemical Principles of Landscape Classification,
by A. I. Parel'man, 10 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 4, 1960, pp 3-12.

Soviet Geography
Amer Geograph Soc
Vol II, No 3

150,288

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May 61

Population Maps in National Atlases, by O. A. Ievlevyev:
7 pp.

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Soviet Geography
Vol II, No 5
Amer Geographical Soc

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Geog

May 61

150,532

Some Problems of Electric Power Development in the
Kuytyshev Economic Administrative Region, by P. N.
Stepanov, N. M. Savenko, 7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 5, 1960, pp 14-19.

Soviet Geography
Amer Geograph Soc
Vol II, No 3

JPRS 8307

150,289

USSR

~~USSR~~ Econ

May 61

The Construction of Economic Models of Regional and
Local Territorial-Production Complexes, by Yu. G.
Sauskhin, 7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 6, 1960, pp 3-9.

Soviet Geography
Amer Geograph Soc
Vol II, No 4

150,292

USSR

~~USSR~~ Econ

May 61

Climate Maps in National Atlases, by I. N. Guseva,
7 pl.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 6, 1960, pp 26-32.

Soviet Geography
Vol II, No 5
Amer Geographical Soc

USSR

Geog

May 61

150,533

A Detailed Geographical Field Study of Solonets
Complexes in the Dry Steppe Zone, by S. V. Golovenko,
N. A. Yegorova, N. P. Osadchaya, 13 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta,
Ser Geograf, No 6, 1960, pp 33-39.

Soviet Geography
Vol II, No 5
Amer Geographical Soc

USSR

Geog

May 61

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The Fuel Balance of Kuybyshev Oblast, by Yu. N.
Savenko, 6 pp.

RUSSIAN, Izvestiya Vest Mosk U, Ser Geograf, No 6,
1960, pp 49-54.

Amer Geographical Soc
Soviet Geography
Vol II, No 6

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Geog

Jun 61

155,645

The Economic-Geographic Situation of Orenburg, by
V. S. Varlanov, 7 pp.

RUSSIAN, per, Vest Moskov U., Ser Geograf, No 6,
1960, pp 55-60.

Amer Geographical Soc
Soviet Geography
Vol II, No 6

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Jun 61

155,644

Recent Tendencies in the Development of Geography
at Moscow University, by A. M. Ryabchikov, 4 pp.

RUSSIAN, per, Vest. Moskovskogo Universiteta,
Ser. Geograf, No 6, 1960, pp 61-63.

Soviet Geography
Vol II, No 5
Amer Geographical Soc

USSR

150,530

Soc - Geography

May 61

Economic Geography at the 1960 International
Geographical Congress, by Yu. G. Saushkin, 8 pp.

RUSSIAN, per, Vest Mosk Univ, Ser Geografiya, No 1,
1961, pp 13-20.

Amer Geographical Soc
Soviet Geography
Vol II, No 7

USSR

169,383

Geog

Sep 61

Velocity of Deformation of a Hollow Cylinder
Subjected to Internal Pressure, by A. P.
Bronskiy, 4 pp.

RUSSIAN, per, Vestnik Moscow Universitet,
Ser Matematiki, Mekhaniki, Astronomii, Fiziki,
Khimii, Vol XI, No 1, 1956, pp 13-16. 9202263

AEC UCRL-Tr 875(L)

Sci - Phys

Mar 63

On Periodic Solutions of Differential Equations
With a Small Parameter, by Yu. A. Ryabov, 12 pp.

RUSSIAN, per, Vestnik Moskov Univ Ser Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii, Vol XI,
No 2, 1956, pp 3-12.

Amer Math Soc

Sci - Math

Aug 63

341,557

Goryaga, G. I. and Shvidkovskiy, Ye. G.
HYSTERESIS OF VISCOSITY OF MOLTEN METALS
[Gimerezis Vyzkostei Rasplavlennykh Metallov].
[1960] 9p. (3 figs. omitted) 12 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10286

Trans. of Moscow U. Vest[nik]. [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1956
[v. 11] no. 2, p. 71-76.

The viscosity of 8 tin-bismuth alloys and of pure tin was examined with a rotation-type viscosimeter. The viscosity of molten metals containing insoluble admixtures showed hysteresis. Molten metals that were purified of such admixtures by filtration in vacuum did not exhibit any viscosity hysteresis. The insoluble admixtures retard the process of recoordination of the atoms (and, consequently, the change of viscosity) during which the atoms pass from the low-temperature packing to the high-temperature packing.

(Metallurgy. TT, v. 5, no. 4)

61-10286

I. Metals--Viscosity
I. Goryaga, G. I.
II. Shvidkovskiy, Ye. G.

143,183

Office of Technical Services

60-16522

Alimarin, I. P. and Gibalo, I. M.
EXTRACTION OF NIOBIUM, TANTALUM AND
TUNGSTEN 8-HYDROXYQUINOLINATES, [1960] 4p,
4 refs.

Order from LC or SLA mi\$1.80, ph\$1.80 60-16522

Trans. of Moscow U. Vestnik Seriya Matematiki
Mekhaniki Astronomii Fiziki Khimii (USSR)
1956, v. 11, no. 2, p. 185-188.

Experiments showed that niobium 8-hydroxyquinolate
can be extracted rapidly and quantitatively by a
number of organic compounds, at pH 6-9, from
solutions containing 2.5% of ammonium tartrate or
citrate; tantalum and tungsten 8-hydroxyquinolates
are not extracted by organic solvents under these
conditions. Methods for separating niobium from
tantalum by extraction of the 8-hydroxyquinolate
with isamyl alcohol, and from tungsten by
extraction of the 8-hydroxyquinolate with
chloroform were developed.
(Chemistry--Analytical, TT, v. 5, no. 7)

1. Niobium--Solvent extraction
 2. Tantalum--Solvent extraction
 3. Tungsten--Solvent extraction
 4. Quinolinol--Solvent properties
- I. Alimarin, I. P.
 - II. Gibalo, I. M.

148,340

Office of Technical Services

On the Dynamic Accuracy of a Servo-System
Which Contains a Typical Nonlinear Member,
by S. Ia. Maslovskii, 11 pp.

RUSSIAN, per, Vestnik Mos. Gos. Univ., Seria
Matem., Mekh., Fiz, 1, Khim, No 1; 1957
April 1957, pp 84-94.

Automation Express
Vol I, No 1
Internat'l Physical Index

Sci
Jun 59

AVAILABLE BR 5
LIBRARY

91,419

(NY-5042)

Pressure Penetration Into the Body of a
Compressible Nonhomogeneous Fluid, by A. G.
Bagdoyev, 11 pp.

RUSSIAN, per, Vest Moskov U, Ser Matemat, Mekh,
Astron, Fiz, Khim, No 2, 1957, pp 45-50.

JPRS 7144

Sci - Phys

Dec 60

134,418

(DC-1039)

Experimental Investigation of the Fine Structure of
the Ionosphere, by V. D. Gusev, K. Ye. Arkhangelskiy,
11 pp.

RUSSIAN, bimo per, Vest Moskov Univer, Ser Matemat.
Astron, Fiz, Khim, NO 2, Moscow, Mar/Apr 1957, pp
75-83.

US JPRS/DC-L-606

Sci - Geophysics, ionosphere studies

69. 536

(HY-4763)

An Investigation of the Penetration of Pressure
Below the Surface of a Compressible Fluid, by
A. G. Bagloyev, 13 pp.

RUSSIAN, per, Vest Moskov U, 8 Ser. Mathe. Mekh,
Antron, Fiz i Khim, No 3, 1957, pp 23-29.

JPRS 5949

Sci - Phys

Nov 60

131,535

Obtemperanskaya, S. I., Terent'ev, A. P., and
Buzlanova, M. M.
THE QUANTITATIVE DETERMINATION OF THIO-
ALCOHOLS AND THIOPHENOLS. 10 July 62 [5]p.
8 refs.

Order from OTS or SLA \$1.10

62-18974

Trans. of Moscow U. Vestnik. Ser[iya] Mat[ematiki]
Mekh[aniki] Astron[omi] Fiz[iki] Khim[ii] (USSR) 1957,
v. 12, no. 3, p. 145-147.

DESCRIPTORS: *Quantitative analysis, *Thio radicals,
*Alcohols, *Phenols, Dioxides, Ethylenes, Hetero-
cyclic compounds, Acrylonitriles.

A new method for the analysis of thioalcohols and
thiophenols, based on the cyanoethylation reaction is
presented. Which is as accurate as the iodometric
method. It was found that if a sample of a compound
containing a mercapto group is treated with excess
(Chemistry--Analytical, TT, v. 9, no. 5) (over)

62-18974

I. Obtemperanskaya, S. I.
II. Terent'ev, A. P.
III. Buzlanova, M. M.

Office of Technical Services

62-34406

Rumyantsev, V. V.
ON STABILITY OF MOTION RELATIVE TO PART OF
THE VARIABLES (Ob Ustoichivosti Dvizheniya po Otno-
sheniyu k: Chasti Peremennykh) tr. by William G. Voigt.
26 Oct 61, 11p. 5 refs. Control Theory Group Tech-
nical rept. no. 8.
Order from Dept. of Electrical Engineering Dept., U.
of Pittsburgh, Pittsburgh 13, Pa.

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Mekhaniki [Astronomii, Fiziki, Khimii] (USSR) 1957
[v. 12] no. 4, p. 9-16.

DESCRIPTORS: *Equations of motion, Differential equa-
tions, Stability, Perturbation theory, *Mechanics,
Control.

(Mathematics, TT, v. 9, no. 7)

1. Title: Liapunov method
1. Rumyantsev, V. V.
- II. UP CTG/TR-8
- III. Pittsburgh U. School of
Engineering, Pa.

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Gusev, V. D., Vinogradova, M. B. and others.
INVESTIGATION OF THE IRREGULAR STRUCTURE
OF THE IONOSPHERE (Issledovanie Neodnorodnoi
Struktury Ionosfery) tr. by Roy Flagg. Oct 60 [12]p.
21 refs. AmMetSoc-T-R-332+.
Order from OTS or SLA \$1. 60

61-23710

Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1957
[v. 12] no. 4, p. 129-136.
Another translation is available from OTS \$0. 50 as
part of 60-21437 [1960] 18p.

DESCRIPTORS: *Ionosphere, Electrons, Density,
Radio waves, Scattering.

Results are surveyed of research since 1947, with
special emphasis on the work of Gusev and his
associates.

(Earth Sciences--Atmosphere, TT, v. 6, no. 5)

61-23710

- I. Gusev, V. D.
- II. Vinogradova, M. B.
- III. AmMetSoc-T-R-332
- IV. American Meteorological
Society, Boston, Mass.
- V. Contract AF 19(604)6113

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Noctilucent Clouds, by A. Kh. Khrigyan.

RUSSIAN, ⁵⁴ Vest Moskov. Univ. Ser Matemat, Mekh i
Astron, No 6, 1957, pp 51-55.

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Sci-Geophys
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Mikryukov, V. E.
THERMISCHE UND ELEKTRISCHE EIGENSCHAFTEN
VON Cu, Ag, Au, Al SOWIE DER LEGIERUNGEN DES
SYSTEMS Cu - Be. (Thermal and Electrical Properties
of Cu, Ag, Au, Al as well as Alloys of the System Cu-
Be). (text in German).
Order from TIB #2, 60

Trans. of Mos[cow] U. [Vestnik] (USSR) 1957 [v. 12]
[Seriya Matematiki, Mekhaniki, Astronomii,
Fiziki, Khimii] no. 6, p. 57-67.

DESCRIPTORS: *Electrical properties, *Copper,
*Metals, Alloys, Silver, Gold, Aluminum, Beryllium,
Thermodynamic properties.

(Metallurgy, T.T. v. 9, no. 6)

62-27193

I. Mikryukov, V. E.
II. Technische Informations-
bibliothek Hannover

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Investigation of Magneto-optic Resonance in Ferromagnetics, by G. S. Krinchik, 21 pp.

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SLA 59-12457

Sci - Phys
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Contributions to the Theory of Surface Waves in
Mg Magnetic Hydrodynamics, by A. D. Kislovskiy.
10 pp.

RUSSIAN, per. Vest. Munkov U. Ser. Mat. Mekh.
Astron. Fiz. Khim., No 6, 1957, pp 99-105.

ATIC F-23-9754/III

Sci - Phys

Jan 61

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Plastic Flow During Simultaneous Continuous Stretch-
ing and Torsion Where the Torsional Moments are
Small Light, by B. N. Malyshev, 19 197.

RUSSIAN, per, Vest Moskovskogo Universiteta; Ser
Mekhan. i Astronomi. Fiz. i Khim. Nr 1,
XII 1978, pp 55-68. 9670699

FD-TR-62-605

Sci - Phys

516, 906

Nov 62

On the Influence of Unilateral Elastic Deformations
on the Curie Point of Ferromagnetics, by K. P. Belov,
A. M. Kadomtseva, 8 pp.
RUSSIAN, per, Vest Moskov Univ Seriya Matemat,
Mekh, Astron, Fiz i Khim, Vol II, 1958, pp 133-138x6.
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AEC-SC-T-64-1648

Sci-Math
Jan 65

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Yarov-Yarovoi, M. S.
ON THE COMPUTATION OF HIGHER PARTIAL
DERIVATIVES OF A COMPOSITE FUNCTION
[REPT. 1]. [1962] 15p. 2 refs.
Order from OTS or SLA \$1.60

63-10377

Trans. of Moscow U. Vestnik [Seriya Matematiki
Mekhanika, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 1. p. 87-95.

DESCRIPTORS: *Partial differential equations,
*Functions, *Operators (Mathematics), Integration,
Polynomials, Series.

(Mathematics, TT, v. 9, no. 12)

63-10377

1. Title: Composite
function.
1. Yarov-Yarovoi, M. S.

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Goryaga, G. I. and Belozero, Ya. P.
ELECTRICAL CONDUCTIVITY OF LIQUID GALLIUM
AND INDIUM. [1961].
Order from FBI.

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Trans. of Moscow U. Vestnik Seriya Matematiki.
Mekh(aniki) Arit(onomii) Fiz(iki) Khim(ii) (USSR)
1958, v. 13, no. 1, p. 133-136.

DESCRIPTORS: *Gallium, *Indium, *Liquid metals,
*Electrical conductance.

I. Goryaga, G. I.
II. Belozero, Ya. P.
III. FRI Trans-136
IV. Fulmer Research Inst., Ltd.
(Gt. Brit.)

NLL M.2599

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(Chemistry--Physical, TT, v. 6, no. 1)

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TARASEVICH N. I., KHLYSTOVA A. D.

The effect of additions of some substances on the intensity of
spectral lines of niobium and tantalum

Vestn. Moskovsk. Univ., Ser. Mat., Mekh., Astron., Fiz.
I Khim., 13, No. 1, 215-222 (1958)

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Abs.: NSA, 13, No. 11, ref. 9781 (1959) -

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The Solution of Linear Differential Equations
by the Method of the Complete Differential, by
L. M. Maurin, 9 pp. UECL

RUSSIAN, per, Vest Moskov U, Ser Mat, Mekh,
Astron, Fiz Khim, No 2, 1958, pp 3-8.
CIA 9048455

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Sci - Math
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SLA 60-15994

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ON THE COMPUTATION OF HIGHER PARTIAL
DERIVATIVES OF THE COMPOSITE FUNCTION,

REPT. 2. [1962] 13p. 2 refs.

Order from OTS or SLA \$1.60

63-10378

Trans. of Moscow IL [Vestnik Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 2, p. 67-75.

DESCRIPTORS: *Partial differential equations,
*Functions, Integration, Polynomials, Equations,
Series.

(Mathematics, TT, v. 9, no. 12)

63-10378

1. Title: Composite
functions

I. Yarov-Yarovoi, M. S.

Office of Technical Services

Absorption of Radio Waves at Non Stationary
Processes and Nonlinear Effects, by L. K.
Nerovnya, 25 pp.

RUSSIAN, per, ~~Vest Moscow-U. Ser. Mate. Mekh.~~
~~Astron. Fiz. Khim.~~ Vol XIII, No 2, 1958,
pp 93-102.

SLA 60-10695

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126,939

OTS, Vol III, No 6
Sep 60

On the Locking of a Molecular Generator by a Strong
External Force, by N. K. Maneskin, R. V. Khokhlov.
RUSSIAN, per, Vest Moskov Univ Ser Matemat, Mekh
Astron Fiz Khim, Vol XIII, No 2, 1958, pp 109-113.

*Navy/APL J323

Sci - phys
Mar 64

62-20220

Cherkasov, A. N.
A NOTE ON LINEAR DIFFERENTIAL EQUATIONS
OF THE SECOND ORDER. [1962] 9p.
Order from OTS or SLA \$1.10 62-20220

I. Cherkasov, A. N.

Trans. of Moscow U. Vestnik, [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 3, p. 13-16.

DESCRIPTORS: *Equations, *Differential equations,
Integration.

(Mathematics, TT, v. 9, no. 11)

Office of Technical Services

62-33741

[Kozhevnikov, N. I.]
ETUDE DE L'IMAGE DES RAIES SPECTRALES EN
FONCTION DES CONDITIONS D'ECLAIRFMENT DE
LA FENTE D'ENTREE ET DU PRISME DU
SPECTROGRAPHE (Issledovanie izobrazheniya
Spektral'nykh Linii v Zavisimosti ot Uslovii Osveshche-
niya Vkhodnoi Shcheli i Prizmy Spektrografa) [Investi-
gation of the Image of Spectrum Lines as Affected by
Illumination Conditions at the Slit and Prism of a
Spectrograph] tr. by B. Vinogradoff. 19 Apr 62 [32]p.
8 refs. CEA Trans. no. R 1607 (text in French).
Order from OTS or SLA \$3.60 62-33741

Trans. in French of Moscow U. Vestnik [Seriya
Matematiki, Mekhaniki, Astronomii, Fiziki, Khimii]
(USSR) 1958 [v. 13] no. 3, p. 51-64.

DESCRIPTORS: *Spectrophotometers, *Optical equip-
ment components, Prisms (Optics), Line spectrum.
(Physics--Spectroscopy, TT, v. 9, no. 8)

I. Kozhevnikov, N. I.
II. CEA-tr-R1607
III. Commissariat a
l'Energie Atomique
(France)

Office of Technical Services

Drag of a Hemisphere Moving at Constant Speed
in a Rarefied Gas, by L. P. Otsakhova, 11 pp.

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RUSSIAN, per, *Sovetskoye Mashinostroyeniye*, Fiz. Khim.,
Vol. XIII, No 4, 1958, pp 17-26.

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Vol. XII, No 5

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Profiles of Hydrogen Lines in a Chromospheric
Spectrum, by E. V. Konomovich, 15 pp. UNCL

RUSSIAN, per, Vest. Moskov Univ. Ser. Mat. Mekh,
Astron., Fiz. Khim, No 4, 1958, pp 37-44. 9660824

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Sci - Astron

Apr 61

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The Approximate Calculation of an Ephemeris in
Unperturbed Elliptic Motion, by B. M. Shchigolev, *6pp*.

RUSSIAN, par, Vest Moskov U, Ser Matemat, Mekh,
Astron, Fiz, Khim, No 4, 1958, pp 45-56.
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Sci - Phys

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102, 082

Kosachevskii, M. P.
THE ESTIMATION OF THE RELATIVE DISTURB-
ANCES OF THE SATELLITES OF MARS [Otsenka
Vzaimnykh Vozmushchenii Sputnikov Marsa]. [1962]
[14]p. 7 refs.
Order from OTS or SLA \$1.60 62-20400

Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 4, p. 57-[64].

DESCRIPTORS: *Mars, *Satellites, Solar systems,
*Solar disturbances, Density, Numerical analysis,
Planets, *Celestial mechanics.

The present paper contains an investigation on the
motion theory of Mars satellites. Under the assump-
tion that Mars satellites are homogeneous spheres
with the diameters 15 and 8 km and with the density
(Astronomy--Astrophysics, TT, v. 9, no. 11) (over)

62-20400

I. Kosachevskii, M. P.

Office of Technical Services

61-28227

Osipov, A. I.
TOWARDS A THEORY OF SHOCK EXCITATION OF
VIBRATION LEVELS OF DIATOMIC MOLECULES
(K Teorii Udarnogo Vosbushdeniya Kolebatelnykh
Urovnei Dvukhatomnykh Molekul). [1961] [15]p.

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Order from OTS or SLA \$1.60

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Trans. of Moscow U. (Vestnik) Seriya Matematik,
Mekhanika, Astronomiya, Fizika, Khimiya (USSR) 1958
[v. 13] no. 4, p. 97-108.

DESCRIPTORS: *Molecules, Vibration, Excitation,
Shock waves, Quantum statistics, Probability,
*Molecular spectroscopy, Theory.

(Physics--Molecular, TT, v. 9, no. 1)

I. Osipov, A. I.
II. Research International As-
sociates, Washington, D. C.

Office of Technical Services

New Low Voltage Sources of Vacuum Ultraviolet,
by Ye. X M. Akimov, 15 pp.

RUSSIAN, per, ~~Vest Mosk Universit~~, ~~Seriya~~
~~Mate Mekh~~, Astron, Fiz, Khim, ~~No~~ 4, 1958,
pp 109-118. 9668553 Vol X 111,

FTD-TT-62-1913

Sci-Phys
May 63

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62-10247

Margolis, E. I. and Egorova, N. F.
THE SIMULTANEOUS MICRODETERMINATION (OF
CARBON, HYDROGEN, AND SULFUR. [1961] [8]p.
4 refs.

Order from QTS or SLA \$1.10

62-10247

Trans. of Moscow U. Vestnik Ser[iya] Mat[ematiki]
Mekh[aniki] Astron[omi] Fiz[iki] Khim[ii] (USSR)
1958, v. 13, no. 4, p. 209-213
Another trans. is available from ATS \$7.75 as
ATS-81L34R [1959] 5p.

DESCRIPTORS: *Carbon, *Hydrogen, *Sulfur,
Determination.

A method for the simultaneous microdetermination
of C, H, and S in organic compounds is described,
using strontium silicate as absorbent for sulfur oxides.

(Chemistry--Analytical, TT, v. 7, no. 9)

I. Margolis, E. I.
II. Egorova, N. F.

Office of Technical Services

Microdetermination of Carbon and Hydrogen, by
N. P. Egorova, A. S. Zabrodina,

RUSSIAN, per, Vestnik Moskov Univ. Seriya
Matematiki, Mekhaniki, Astronomii, Fiziki,
Khimii, Vol XIII, No 4, 1958, pp 235-238.

AT3 RJ-2020

Sci - Chem

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The Effect of Viscosity and Heat Conduction
on the Flow of a Gas Behind a Severely Curved
Shock Wave, by G. A. Lyubimov, 5 pp

RUSSIAN, per, Vestnik Moskovskogo Univer, Ser
Mat. Mekh. Astron. Fiz. Khim, No 5, 1958,
pp 33-35. 9664204

FTD-TT-61-266

Sci - Phys

186, 639

5 Feb 62

Concerning the Approximate Calculation of an
Ephemeris in the Restricted Problem of Three Bodies,
by B. M. Shchigolev, 22 pp.

RUSSIAN, per, Vest Moskovskogo Univ, Ser Matemat,
Astronomii, Fiz, Khim, No 5, 1958, pp 37-48.
CIA 9046102

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Sci - Astronomy
Jan 60

107,553

Yarov-Yarovoi, M. S.
ON THE EXPANSION OF THE FORCING FUNCTION
OF THE NEWTONIAN ATTRACTION OF TWO
BODIES. [1962] 11p. 3 refs.
Order from OTS or SLA \$1.60

63-10376

Trans. of Moscow U. Vestnik, [Seriya Matematiki,
Mekhanika, Astronomi, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 5, p. 55-61.

DESCRIPTORS: *Celestial mechanics, *Inertia,
*Functions, *Euler's angles, Equations, Series,
Equations of motion.

(Astronomy--Astrophysics, TT, v. 9, no. 12)

63-10376

1. Title: Two-body problem.
1. Yarov-Yarovoi, M. S.

Office of Technical Services

Theory of Chemisorption on Metals, by
V. L. Bonch-Bruyevich, V. B. Glasko.
RUSSIAN, per, Vestnik Moskovskogo Universiteta
Seriya Matematiki, Mekhaniki, Astronomiy, Fiziki
i Khimiy, Vol 13, No 5, 1958, pp 91-104.
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Sci-Chem
Sept 67

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Some Optical Investigations of a High-Powered
Pulsed Gas Discharge in Hydrogen, by P. S.
Kireyev, A. A. Inzafovich, 8 pp.

RUSSIAN, per, ~~the~~ Vest. Moskov Univ Ser Mat,
~~Mekh, Astron, Fiz i Khim, Vol XIII, No 5,~~
1958, pp 105-110.

AKC 70-230-2163
OZS-60-21765

Sci - Engr
May 61

150,362

Yarov-Yarovoi, M. S.
ON THE RECURRENT RELATIONS FOR THE COM-
PUTATION OF THE DERIVATIVES OF COMPOSITE
FUNCTIONS. [1962] 9p. 3 refs.
Order from OTS or SLA \$1.10

63-10359

63-10359

1. Title: Composite functions.
1. Yarov-Yarovoi, M. S.

Trans. of Moscow U. Vestnik, [Seriya Matematiki,
Mekhanika, Astronomiya, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 6, p. 31-37.

DESCRIPTORS: *Partial differential equations,
*Functions, Integration, Polynomials, Equations.

(Mathematics, TT, v. 9, no. 12)

Office of Technical Services

Yarov-Yarovoi, M. S.
ON THE INITIAL MEMBERS IN THE EXPANSION OF
THE FORCING FUNCTION OF THE ATTRACTION OF
TWO BODIES. [1962] 8p. 3 refs.
Order from OTS or SLA \$1.10 63-10374

Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhanika, Astronomiya, Fiziki, Khimiya] (USSR) 1958
[v. 13] no. 6, p. 39-44.

DESCRIPTORS: *Celestial mechanics, *Inertia,
*Functions, Equations, *Series, Euler's angles,
Equations of motion.

(Astronomy--Astrophysics, TT, v. 9, no. 12)

63-10374

1. Title: Two-body problem.
1. Yarov-Yarovoi, M. S.

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High Viscosity of Melted Zinc, Aluminum, Cadmium
and Antimony, by G. I. Goryaga, I. A. Nosyreva,
8 pp.

RUSSIAN, per, Vest Mosk Univ Ser Mat Mekh Astron
Fiz Khim, Vol XIII, No 6, 1958, pp 59-64.
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FTD-TT-62-1697

Sci-Phys
Apr 63

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Method of Investigating Automatic Control Systems
Containing Linear Elements With Variable Parameters,
by N. T. Kuzovkov, 14 pp.

RUSSIAN, per, Vest Moskov Univ, Ser Matemat Mekh, *Antin*
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E Jul 62

NLL M. 6298
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